

Patent Abstracts of Japan

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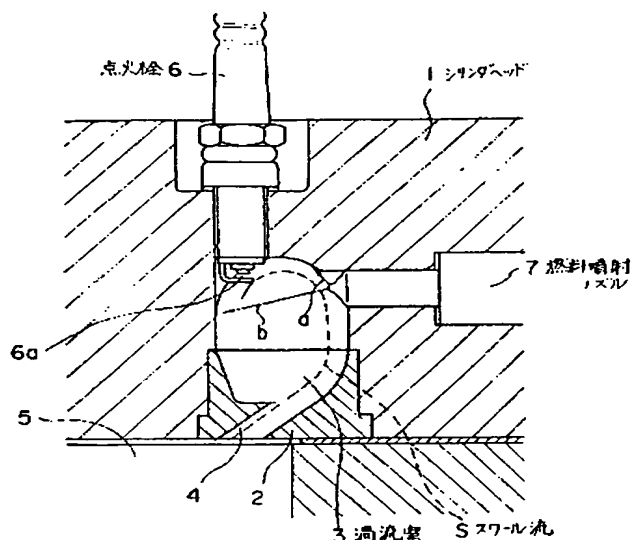
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APPLICANT : NISSAN MOTOR CO LTD;

INVENTOR : KAWASHIMA JUNICHI;

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TITLE : AUXILIARY IGNITION TYPE DIESEL ENGINE



ABSTRACT : **PURPOSE:** To make a stable ignition and combustion under an electric discharging spark of a spark plug at all times and improve a starting characteristic at a low temperature or the like by a method wherein a fuel injection nozzle placed adjacent to a swirl flow chamber is provided with at least two injection holes and each of the injection holes is directed toward the specified direction.

CONSTITUTION: A spark plug 6 is inserted into a swirl flow chamber 3 from above the cylinder head 1 in a vertical direction. The side of the swirl flow chamber 3 which is upstream of the swirl flows S than the spark plug 6 has a fuel injection nozzle 7 from the side part of the cylinder head 1. In this case, the fuel injection nozzle 7 is composed of hole type nozzle having two injection holes. One of the injection axis (a) is directed at an intermediate part between the point near the spark plug 6, that is, between the spark plug 6 and the fuel injection nozzle 7, and the other injection axis (b) is directed toward the downstream of the swirl flow S than the spark plug 6. The injection axis (b) is set at its injection direction along the swirl flow S, that is, a forward swirl direction.

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